

COMPRESSION PADDLE MIXER

ABSTRACT OF THE DISCLOSURE

A compression-paddle mixer has a compression paddle (1) that includes paddle blades (3) juxtaposed colinearly to a paddle rod (5). The paddle blades
5 include one or more sets (2) of two paddle blades having channel-funneled orientation on paddle spokes (4) that are extended radially from the paddle rod. The channel-funneled orientation includes channel-funnel inlets (9) having inlet areas between leading-edges of sets of the paddle blades that are larger than inlet areas of channel-funnel outlets (11) between trailing-edges of the sets of the paddle blades in
10 a direction of rotation of the paddle blades transmitted by rotation of the paddle rod. The compression paddle can be sized, shaped and structured for use with select sizes, shapes and structures of mix containers for select mixing applications.